



Meeting of the Technical Steering Committee (TSC) Board

Wednesday, March 10th, 2021
11:00am ET

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Agenda/Updates

- Announcements, Upcoming talks and deadlines
 - ISC 2021
 - Accepted BoF Sessions of ISC 2020 will be held at ISC 2021
 - PEARC'21 BoF submission – due May 9
 - PEARC'21 (short paper) submission – due Apr 13
 - SC'21 BoF submission – due August 6
 - [2021 Stanford Conference](#) (Jeremy presenting) – March 18th
 - Infrastructure outage (postponed, has not been rescheduled yet):
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- Internship program
- Cloud working group
- Linaro CI system updates

Mentorship Program

- Our first mentorship program wrapped up at the end of last year
- 4 students total (1 ended up not completing)
- We need to think about follow up program and timing
 - we did Fall 2020 for the first one because we were not quite ready for Summer 2020
 - summer time frame is clearly the more normal choice for students
- Options to think about:
 - try again for this summer...
 - LF deadline for posting is April 15
 - wait till later date...
 - Fall/spring
 - Summer 2022
 - thoughts/volunteers?
- Regardless, we should probably work on mentorship page for web site to highlight the program and previous efforts

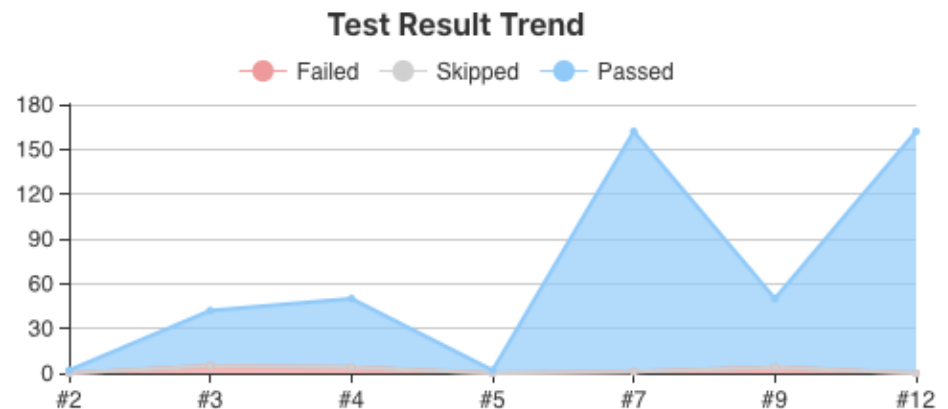
OHPC Cloud Updates

- Chris D. working towards AWS blog post
 - Getting material reviewed before github release
- David B. will be submitting an SC21 tutorial
 - Introduction to OpenHPC and where we are with OS support (30 min)
 - Setting up OpenHPC on cloud ARM processors with Leap15 (60 min)
 - Overview of HPC containers in OpenHPC (15 min)
- HPC containers and multi-node MPI "Here be Dragons" (75 min)
 - Potential issues and Fixes
 - Case studies from LRZ, PSC, TACC, UT-Dallas
 - Demos, Wrap up and Q&A

ARM CI testing

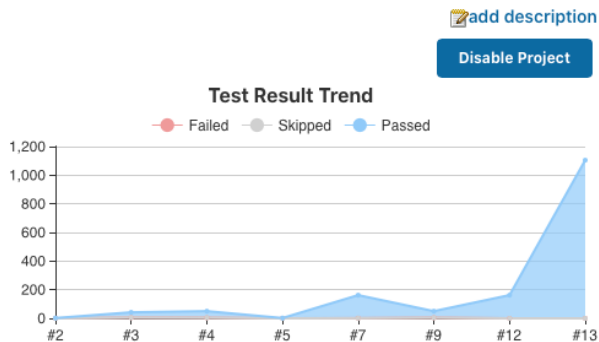
- Login access restored to ARM hardware at Linaro last Thursday (thank you Paul)
- Have been working to restore our previous CI setup:
 - NIC additions and some wiring changes futzed up our previous config
 - BIOS settings all needed rework as a result
 - have been able to provision 4 of the 6 TX2 hosts thus far
 - 1 has hardware issue
 - 1 doesn't have network access
 - encountering some BIOS state issues not being preserved...

- But, just got first short CI job to cooperate earlier this morning



ARM CI testing

- Full CI run on Leap15.2 initiated this morning



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Testsuite summary for test-suite 2.0.0
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# TOTAL: 1
# PASS: 1
# SKIP: 0
# XFAIL: 0
# FAIL: 0
# XPASS: 0
# ERROR: 0
-----
make --no-print-directory check-TESTS
PASS: apps/hpcg/run
PASS: apps/miniFE/ohpc-tests/test_mpi_families
PASS: compilers/ohpc-tests/test_compiler_families
PASS: dev-tools/autotools/run
PASS: dev-tools/cmake/run
PASS: dev-tools/cilk/ohpc-tests/test_compiler_families
PASS: dev-tools/hwloc/ohpc-tests/test_compiler_families
PASS: dev-tools/mpi4py/ohpc-tests/test_mpi_families
PASS: dev-tools/numpy/ohpc-tests/test_mpi_families
PASS: dev-tools/scipy/ohpc-tests/test_mpi_families
PASS: dev-tools/tbb/ohpc-tests/test_compiler_families
PASS: dev-tools/valgrind/ohpc-tests/test_compiler_families
PASS: libs/adios/ohpc-tests/test_mpi_families
PASS: libs/boost/ohpc-tests/test_mpi_families
PASS: libs/boost-mpi/ohpc-tests/test_mpi_families
PASS: libs/fftw/ohpc-tests/test_mpi_families
PASS: libs/gsl/ohpc-tests/test_compiler_families
PASS: libs/hdf5/ohpc-tests/test_compiler_families
PASS: libs/hypr/ohpc-tests/test_mpi_families
FAIL: libs/mfem/ohpc-tests/test_mpi_families
PASS: libs/metis/ohpc-tests/test_compiler_families
PASS: libs/mumps/ohpc-tests/test_mpi_families
PASS: libs/netcdf/ohpc-tests/test_mpi_families
PASS: libs/openblas/ohpc-tests/test_compiler_families
PASS: libs/opencoarrays/ohpc-tests/test_mpi_families
PASS: libs/petsc/ohpc-tests/test_mpi_families
PASS: libs/phdf5/ohpc-tests/test_mpi_families
PASS: libs/plasma/ohpc-tests/test_compiler_families
PASS: libs/pnetcdf/ohpc-tests/test_mpi_families
PASS: libs/ptscotch/ohpc-tests/test_mpi_families
PASS: libs/R/ohpc-tests/test_compiler_families
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PASS: libs/scotch/ohpc-tests/test_compiler_families
PASS: libs/slepc/ohpc-tests/test_mpi_families
PASS: libs/superlu/ohpc-tests/test_compiler_families
PASS: libs/superlu_dist/ohpc-tests/test_mpi_families
PASS: libs/trilinos/ohpc-tests/test_mpi_families
PASS: mpi/ohpc-tests/test_mpi_families
PASS: perf-tools/imb/ohpc-tests/test_mpi_families
PASS: perf-tools/omb/ohpc-tests/test_mpi_families
PASS: perf-tools/dimemas/ohpc-tests/test_mpi_families
PASS: perf-tools/extrae/ohpc-tests/test_mpi_families
PASS: perf-tools/scalasca/ohpc-tests/test_mpi_families
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2.1 Release

- Assuming we can establish CI run stability on the ARM hardware, we can now move forward to try and finalize 2.1 release by end of the month
 - currently just ran Leap 15.2 example
 - need to assemble and deploy CentOS 8.3 image as well
- TODOs
 - add job completion configuration for SLURM per discussion last time
 - work thru remaining CI failures